6

BUNGARY

PINTER, Jozsef, M.D., CSATA, Serdor, M.D., FRANG, Dezso, M.D., RENTI-VAMOS, Ferenc, M.D., TOTH, Jozsef, M.D., and TOTH, Mihaly, M.D., of the Urological Clinic at the Medical University (Orvostudomanyi Egyetem) in Budapest.

"Acute Anuria Cases of Various Drigins"

Budapest, Orvosi Hetilap, Vol 134, No 20, 19 May 1963, pp. 918-920.

Abstract: Two hundred cases of scute anuria were treated at the authors clinic since Feb 1960; 148 patients of these were handled in the artificial kidney department. Cases caused by operative shock had a high mortality rate (11 out of 14); so did the cases caused by accidents. The cure rate of cases originating from complications following transfusion, sepsis, poisoning, was high. All patients suffering from anuria caused by acclampsia following pregnancy died since dyalysis treatments were ineffective. Thenty three references, including 7 German, 5 Hungarian, and 11 Western.

1/1

11

CSATA, Sandor, dr.; FRANG, Dezso, dr.; PINTER, Jozsef, dr.

Significance of urological examination in the diagnosis of acute renal failure. Orv. hetil. 105 no.6:258-259 9 F'64.

1. Budapesti orvostudomanyi Egyetem, Urologiai Klinika.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

CSATA, Sandor, dr.; PINTER, Jozsef, dr.; TOTH, Mihaly, dr.; FRANG, Dezso, dr.

Acute renal failure caused by complications following blood transfusion. Orv. hetil 105 no.9:409-411 1 Mr'64.

1. Budapesti Orvostudomanyi Egyetem, Urologizi Klinika.

ROSDY, Erno, dr.; FRANG, Dezso, dr.; CSONTAI, Agoston, dr.

Significance of intratracheal aneathesia in urology. Magy. sebesz. 17 no.3183-185 Je 64.

Anesthesia in instrumental interventions in the urinary bladder. Ibid. :189-192 ·

1. Budapesti Orvostudomanyi Egyetem Urologiai Klinika (Igangato: Babics, Antal, dr.; egy. tanar, akademikus) kozlemenye.

ZADOR, Laszlo, dr.; FRANG, Dezso, dr.

Problems of urogenital tuberculosis in old age. Orv. hetil. 105 no.24:1111-1114 14 Je'64

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika.

CSATA, S.; PINTER, J.; TOTH, M.; FRANG, D.

Concerning acute renal insufficiency conditioned by transfusion episodes. Acta Chir. Acad. Sci. Hung. 5 no.1:71-77 '64.

l. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen Universitat, Budapest.

MAGASI, P.; FRANG, D.; BABICS, A., prof. dr.

Surgical treatment of diseases associated with adrenal hypertrophy. Acta chir. acad. sci. Hung. 5 no.4:359-372 '64.

1. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen Universitaet, Budapest.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

BALOGH, Imre, dr.; FRANG, Dezso, dr.; TOTH, Mihaly, dr.

Advances in the surgical treatment of patients with coralliform kidney calculi. Orv. hetil. 105 no. 46:2175-2179 15 N 164.

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika es Pecsi Orvostudomanyi Egyetem, Urologiai Klinika.

BABIC, Actal, dr.; CSATA, Sandor, dr.; FRANC, Dezso, dr.; FIR, Miholy, dr.

Bilateral retrograde pyelography causing acute renal failure.
Orv. hetil. 106 no.12:543-547 21 hr 185

1. Budapesti Grvostudomanyi Egyetem, Urologiai Kiinika (igazgate: Babics, Antal, dr.).

FRANC, DEZSO, dr.; RUSZINKO, Barnabas, dr.

Ureteral valve causing total obstruction. Or hetil. 106 no.28: 1323-1324 11 J1º65.

1. Budapesti Orvostudomanyi Egyetem, Urologiai Klinika (igaz-gato: Babics, Antal, dr.).

CSATA, Sandor, dr.; FRANG, Dezao, dr.; fOTH, Mihaly, dr.

Acute renal failure saused by hemorrhagic pancreatible. Orv. hetil. 106 no.3231519-1520 8 Ag<sup>9</sup>65.

1. Bidapes'i Orvostudomanyi Egyetem, Urologiai Klinika (igazgatos Babida, Antal, dr.).

CSATA, S.; FRANG, D.; TOTH, M.; CSELLAR, M.

On the association of pancreatic lesion and acute renal failure. Acta chir. acad. sci. Hung. 6 no.4:407-411 '65.

1. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen Universität Budapest. Submitted December 28, 1964.

### INTERNAL MEDICINE

HUNGARY

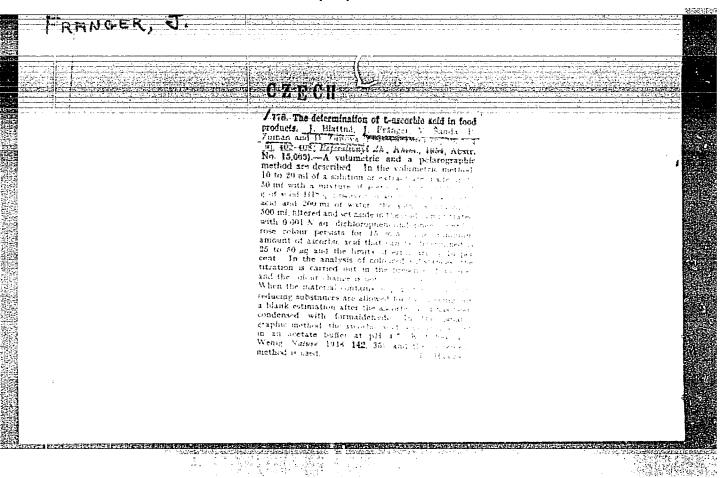
FRANG, Dezso, Dr., CSATA, Sandor, Dr., HAMVASI, Gyorgy, Dr., and TOTH, Mihaly, Dr., Urological Clinic at the Medical University (Orvostudomanyi Egyetem, Urologiai Klinika) in Budapest (Director: BABICS, Antal, Dr.).

"Acute Kidney Insufficiency Caused by Mercury Compounds"

Budapest, Orvosi Hetilap, Vol 107, No 24, 12 Jun 1966, pp 1118-1120.

Abstract: In order to demonstrate the effect of mercury compounds on the development of kidney insufficiency in an acute manner, the authors describe their experiences in this field. This involves 14 cases at the Artificial-Kidney Department (Muvese Osztaly) of the Urological Clinic. These cases were discussed and the respective clinical and pathological factors were described. The prognosis of acute kidney insufficiency caused by mercury compounds appears to be brighter today than has been before. 16 references, including 10 Hungarian, 1 German, and 5 Western.

1/1



FRANGOPOL, Maria

Chromatography on thin layer. Studii cerc chim 14 no.3:281-300 Mr '65.

1. Laboratory of Marked Organic Substances, Institute of Nuclear Physics of the Rumanian Academy, P.O.Box 35. Submitted October 19, 1964.

FRANGOPOL, P.; BALABAN, A.

The 2, 5-diphenyloxazole (PPO) preparation (organic scintillator in solution); a laboratory note. p. 427.

Academia Republicii Populare Romine. STUDII SI CERCETARI DE CHIMIE. Bucuresti, Rumania. Vol. 6, no. 3, 1958.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 7, July 1959.

Uncl.

R/003/61/012/012/001/001 D282/D305

AUTHORS:

Chiotan, C., Dema, I., Frangopol, F. T., Gird, E.,

and Voicu, V.

TITLE:

Preparation of I-131 of high specific activity

PERIODICAL:

Revista de Chimie, v. 12, no. 12, 1961, 706-708

This paper was presented at the Institutul de fizică (Institute of Atomic Physics), on May 4 - 6, 1961. It describes experiments on preparing I-131 from tellurium dioxide. In the first part of the article, the authors briefly describe some preparation methods of radioiodine, referring to a great number of western publications and to the following Soviet scientists: D. J. Riabchikov, A. H. Ermakov, L. S. Kozyreva and V. S. Oreshko. In the second part of the article, they describe their experiments as follows. Fowered tellurium dioxide was irradiated in the I.F.A. reactor for 3 - 4 weeks, 40 hrs every week, at a flux of 1 · 1013 n/sq cm s. The irradiated powder was then dissolved in a 10% NaOH solution by

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R/003/61/012/012/001/001 D282/D305

Preparation of I-131 ...

using magnetic agitation. The solution was filtrated and acidulated with  $\rm H_2SO_4$  to a ratio of 1 : 1. This mixture was then introduced into a balloon flask, and a 1.5% solution of  $Fe_2(SO_4)_3$  was added to guarantee the oxidation of the iodine. This solution was distilled in vacuum, while the product obtained was collected in a second balloon flask, already containing a titrated solution of NaOH. distillation process lasted 2 - 4 hrs. The concentration of the I-131 solution was achieved by evaporation in the second balloon flask. Thus, specific activity of the I-131 solution was considerably increased. The I-131 solution obtained was removed and neutralized with n HCl, up to a pH = 7. The separation efficiency of I-131 from TeO<sub>2</sub> irradiated under these conditions was approx 75%. Thus, 300 - 400 mC of radioiodine were obtained from a charge of 40 g TeO2. & spectrometrical and chromatographical analyses of I-131 did not present Te, IO3 or other impurities. Chemical analyses for the identification of traces of heavy metals, arsenic

Card 2/3

Preparation of I-131 ...

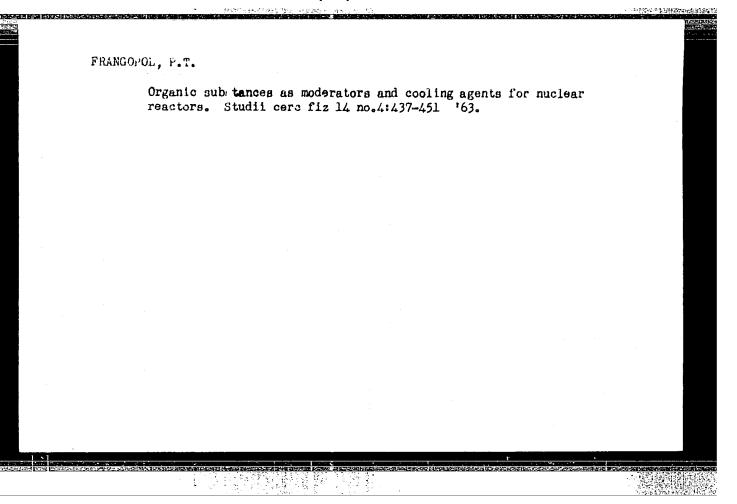
R/003/61/012/012/001/001 D282/D305

Fe<sup>2+</sup>, So<sub>4</sub><sup>2-</sup>, etc., did not indicate their presence above the limits admitted for medical purposes. Acknowledgement is made to E. A. Ivanov, M. J. Cristu and D. Papae for their cooperation. There are 1 figure and 22 references: 2 Soviet-bloc and 20 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: L. Burkinshaw, Phys. in Med. Biol., 1958, 2, p. 255; of NSA. 1958, 12, 10.183; D. S. Ballantine, Natl. Nucl. Eng. Series, Div. IV, 9, Radiochem. Studies, The Fission Froducts, 1951, 5, p. 1639, McGraw Hill, London, 1951; Ballantine D. S., MDDC - 1600, C. C. Evars and J. Stevenson, Brit. Fat. 763.865; cf. CA, 1957, 51, 78970; ari M. Inarida, J. Chem. Soc. Japan, Fure Chem. Sect., 1960, 60, p. 460.

ASSOCIATION:

Institutul de Fizica Atomica al Academiei R.P.R. (Institute of Atomic Physics Rumanian Academy of Sciences) and Laboratorul de Freparare a Radio-izotopilor (Laboratory for the Preparation of Radio-oisotopes)

Card 3/3



BALABAN, A. T.; GAVAT, Maria; FRANGOPOL, P. T.; MOCANU, Maria; NENITZESCÚ, C. D. [Nenitescu, C. D.]

Pyrylium salts obtained by discylation of olefins. Pt. 13. Rev chimie Roum 9 no.1:79-92 Ja '64

1. Institute for Atomic Physics (P.O.Box 35) and Institute of Organic Chomistry of the  $R_{\rm umanian}$  academy, Bucharest.

BALABAN, A. T.; GAVAT, Maria; FRANGOPOL, P. T.; MOCANU, Maria NENITESCU, C. D.

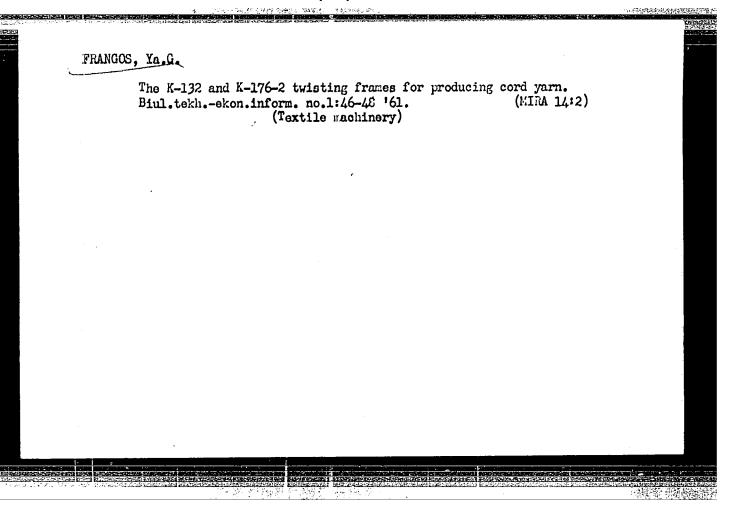
Pyrilium salts obtained by olefin diacylation. Pt. 12. Studii cerc chim 12 no. 1: 71-85 Ja 164.

 Institute of Atomic Physics and the Center of Organic Chemistry of the Rumanian Academy, Bucharest.

FRANCOS, Ya.G., ingh.

Winding mechanisms on spinning and twisting machines. Tekst.
prom. 19 no.12:29-35 D '59. (MIRA 13:3)

(Spinning machinery)



FRANCETION, M. S., Chair of Fharmacology of the First Medical Institute, Leningrad

"Experimental Pharmacological Studeis on Soviet Preparations of Scopolamine,"

Farm. 1 Toks., v. 2, no. 4, 1939, p. 47.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

FRINGULOVA, M.S., kandidat mediteinskikh nauk.

A rare case of placenta previa totalis. Akush. i gin. no.6:64-65
N-D \*55

1. Is kafedry akusherstva i ginekologii I Leningradskogo
mediteinskogo instituta imeni akad. I.P. Pavlova (sav. kafedroy
-prof. I.I. Yakovlev)

(FLACENTA FREVIA
complete, management)

Surgical intervention in delivery; historical review of materials from the Leningred Society of Obstetricians and Gynecologists from 1917, till 1950. Akush. i gin. 33 no.2:80-83 Mr-Ap '57. (MIRA 10:6)

1. Is kefedry skusheratva i ginekologii (sav. - prof. I.I.Yakovlev)
I Leningredakogo meditsinskogo institute imeni skad, I.P.Pavlova.

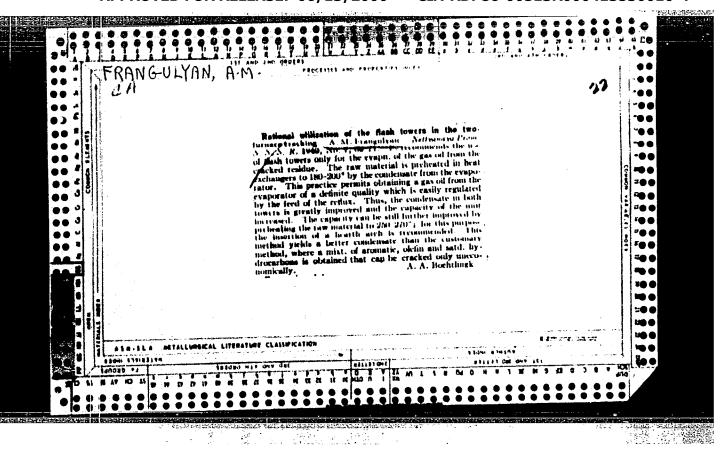
(CHSARMAN SECTION, hist.

progr. in Russia since 1917)

KORYAKINA, T.O., doktor med. nauk (Kalinin, 2-ya ul. Shevchenko, 40, kv.23); FRANGULOVA, M.S., kand. med. nauk

Frequency and labor in a patient with direct portabaval anastomosis. Vest, khir. 92 n. 1:86-87 Ja 164. (MIRA 17:11)

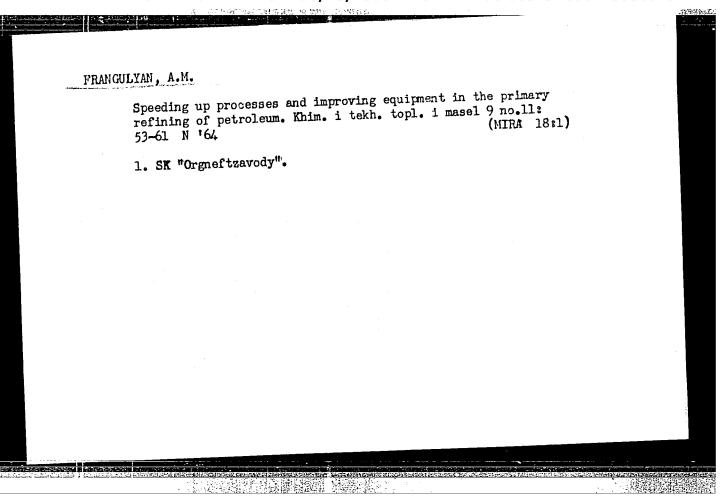
l. Iz gospital'noy khirurgicheskoy kliniki Kalininskogo meditsinskogo instituta i kafedry akusherstva i ginekologi. l~go Leningradskogo meditsinskogo instituta imeni Pavlova.

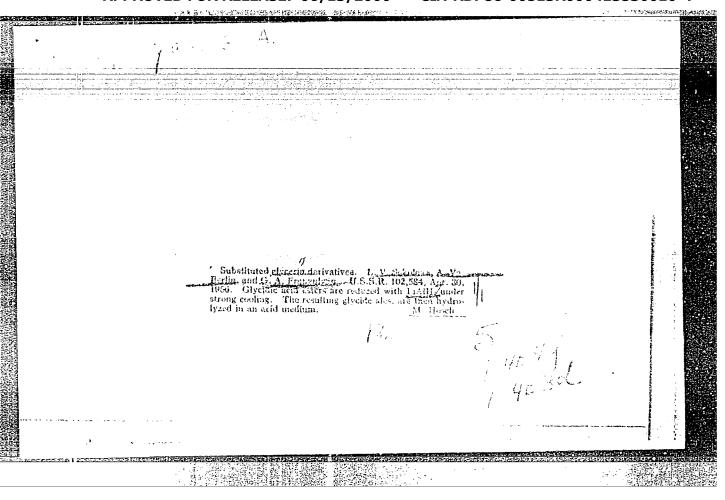


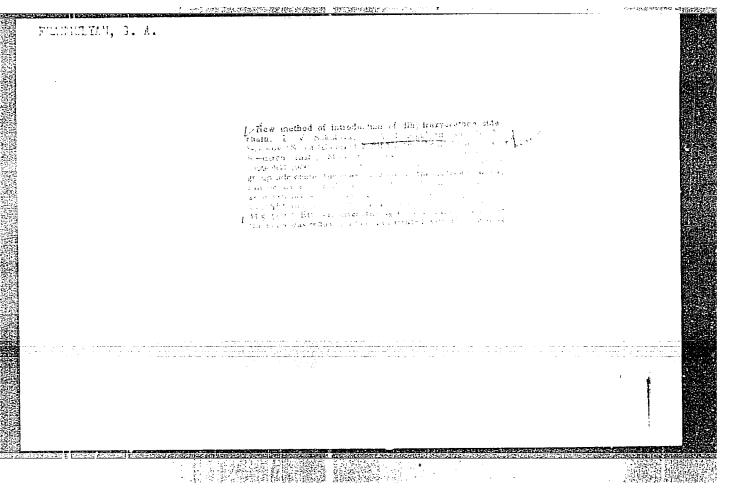
Gontinuous coking of petroleum residues as a means of increasing the yield of light petroleum products. Khim i tekh. topl. i masel 3 no.3:43-45 Mr '58. (MIRA 11:3)

1. Orenburgekly sevnarkhoz. (Petroleum products)

# FRANGULYAN, A.M. Solecting the flow sheet for coking petrolaum residues (discussion). Khim. i tekh.topl. i masel 9 no.2:14-18 F '64. (MIRA 17:4) 1. SK "Orgneftezavody".







L 60:90-66 EWT(m)/EPF(c)/EWP(1) RM  ACC NR: AP5026740 SOURCE CORD IN (2005 to 5 t	
SOURCE CODE: UR/0286/65/000/017/0016/0016  INVENTOR: Lel'chuk, S. L.; Ivanova, N. A.; Vabel', Ya. I. (Deceased); Agafonova, M. I.; Frangulyan, G. D.; Seinvannikova, A. M.	
HALE THE THE THE THE THE THE THE THE THE TH	
TITLE: A method for producing dimethyldichlorosilane. Class 12, No. 174185	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 16	e e e e e e e e e e e e e e e e e e e
TOPIC TAGS: silane, dimethyldichlorosilane, silicone	
ABSTRACT: This Author's Certificate introduces a method for producing dimethyldichlorosilane by interacting methyl chloride with a silicon-copper alloy treated with a cadmium compound. The product yield is increased by using cadmium chloride in the amount of 4.3% of the weight of the alloy and subjecting the processed alloy to thermal treatment at 180°C.	
UDC: 547.419.5.07	
SUB CODE: GC,OC/ SUBM DATE: 270ct62/ ORIG REF: 000/ OTH REF: 000	
50 -	-
Card 1/1	
2902 0141	

USSR Country Microbiology. Antibiosis and Symbiosis. Antibiotics. Catogory Ref Zhur-Biol., No 23, 1958, No 103702 aba. Jour :Pikovskaya R. I.; Frangulyan I. S.; Rtskhiladze S. I. Author in In handens - well-downthe story santarnogs institute my Institut. Antibacterial Properties of Humus. zhrand phraneming Sou Title :Zh. mikrobiol., epidemiol. i immunobiologii, 1956, No 2, Orig Pub. 28-31 Fifty one series of crude fluids were obtained from abstract aqueous extracts of terra rossa which exerted an antibacterial effect in vitro on bacteria of the colon-typhoid group. The fluids are thermostable and withstand sterilization at 120° and a pH of 3.9-4.5. The antibacterial substances found in the extracts come from humus. Fractionation of the fulvic acid fraction of humus made it possible to isolate the active part, which is distinguished from the original crude substance by a number of properties, particularly, by the capacity of maintaining its activity in protein media. The acid and principally organic nature of the antibacterial substances Card: 1/2 7-24

FRANGULYAN, L.A.
USSR / Microbiology. Banitary Microbiology.

F-2

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5197

Author : Frangulyan, L.A.

Inst 8 Not given

8 Survival of Flexmer Dysentery Bacilli in Water. (Experimental Title

Orig Pub : Tr. Erevansk. med. in-ta, 1956, No 8, 311-316

Abstract : The author infected tap and river waters (100 ml) with a cul-

ture of Flexner bacilli at the rate of 10,000 cells per ml. of water. The tests were conducted on 15 strains (5 stock, 5 sensitive to and 5 resistant to norsulfasole and syntomycin iselated from patients). It was shown that medicinally resistant strains survive longer, especially in tap water (at 2-6° for 32-42 days); stock strains die off sooner, especially in

river water (in 3-9 days). The author considers that in cases of natural infection, water may play a definite role in sprea-

ding bacterial dysentery.

: 1/1 Card

!									
	Country Category	f USSR F : Microbiology-Microbes Patuogenic for Man and Animal							
	Aba. Jour	1 Ref Zhur - Biot., No.19. 1958, 86139							
	Author	Frangulyan, L.A.							
	Institut.	: Quantitative Count of Times of Retention of Viab- ility of Dysentery bacilli in water							
	Orig Pub.	: 12v. A.N. ArmSSR. Biol. i SKh. N., 1957, Vol.10, No.3, 97-100							
	Abstract	: Each of 25 strains of Flexuer bacilli were used to infect 100 ml of tap water in the city of Yerevan. The water was placed in sterile flasks and bacilli added until the count was 10 thousand microbes per ml. The flasks were kept at room temperature (17.7)							
		to 19.5 degrees). Each day, 0.1 ml of the water was transferred to Plonkirev's medium (3 dishem). After 24-hour incubation at 37 degrees, counts were made of the number of colonies. The greatest viability was exhibited by treatment-resistant strains							
	Card:	of Flexner bacilli, and the least by the museum strains. Treatment-sensitive strains occupied an 1/2							

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

FRANGULYAN, L.A.

Comparing the drug resistance and biological properties of Flexner's bacilli isolated from dysentery patients. Izv. AN Arm.SSR. Biol.i sel'khoz.nauki 10 no.8:93-96 Ag '57. (MIRA 10:10)

1. Kafedra mikrobiologii Yerevanskogo meditsinskogo instituta. (SHIGELLA PARADYSENTERIAE)

```
MIKAYELYAH, V.G.; MELKUMYAN, M.O.; FRANGULYAN, L.A.

Rosistance of Shigella to norsulfazone and synthomycin. Zhur.
mikrbibl.epid. i immun. 28 no.8:56-60 Ag '57. (MIRA 11:2)

1. Iz kafedry mikrobiologii Yerevanskogo meditsinskogo instituta.
(SHIGELLA DYSENTERIAS, effect of durgs on,
chloremphenicol & sulfathiazole, resist. (Rus))
(CHLORAMPHENICOL, effects,
on Shigella dysenteriae, resist. (Rus))
(SULFATHIAZOLE, effects,
same)
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COUNTRY : Ursr CLITEGORY : Microbiology

ABS. JOUR. Ref Ehur-Biolowiya, No.4, 1959. Ma. 14511

: Mikaelyan, V.G.; Melkunyan, M.C.; Frangulyan, L. AUTHOR INST.

TTTE

Resistance of Dysentery Bacteria to Norsulfazol and Syntomycin.

ANG PUB: Th. mikrobiol., epidemiol. i immunobiologii,

1957, No.8, 56-60

Of 215 strains of Flexner dysente y pacteria isolated from patients, 51 strains were sensitive to norsulfazol (from 0.01 - 0.5 mg/nl) and 90 strains to syntomycin (from 0.1 to 3 Y/ml). Half of the studied strains (52.2%) did not have concurrent resistance to norsulfazol and syntomycin. Syntomycin revealed a more sharply expressed oacteriostatic action than norsulfazol. The bacteriostatic action

.of norsulfazol and syntomycin was manifested :

GARD: 1/2

ARCTRACT

COUNTRY CATEGORY

ABS. JOUR.

AUTHOR INST.

No. 14811

ORIG. PUE.

ABSTRAST

in a broad range of concentrations from 0.5 to 12 mg/ml for norsulfazol and from 0.25 to 20 Y/ml for syntomycin. Of 33 strains of Flexner dysentery bacteria isolated from children up to 1 year of age, who had never received syntomycin and norsulfazol previously, 32 strains were resistant to norsulfazol and 23 to syntomycin. -- S.P. Chapovelove

CARD:

2/2

TRANGULYAN, L. A.: Master Med Sci (diss) -- "The viability of pharmaceutically stable local strains of dysentery bacteria of the Flexner type in water (observations under laboratory and natural conditions)". Yerevan, 1958.
22 pp (Yerevan State Med Inst, Chair of Microbiology), 150 copies (KL, No 2, 1959, 126)

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413530010-4

L 00864-66

ACCESSION NR: AP5015865

UR/0119/65,000/006/0005/0007 681.122:621.3.088

AUTHOR: Balabin, I. Ye. (Engineer); Frangulyan, L. A. (Engineer)

TITLE: Measuring gas rate-of-flow with automatic pressure-variation correction

SCURCE: Priborostroyeniye, no. 6, 1965, 5-7

TOPIC TAGS: rate of flow measurement, gas measurement

ABSTRACT: It is assumed that the gas rate-of-flow is measured by linear-characteristic rotameters with or without quadratic-characteristic differential manometers. In practice, the correction of the rate-of-flow measurement can be realized by Soviet standard measuring modules ("AUS"), such as PD-36A, RS-33A, BS-34A, etc. Two cases are examined: (1) When the gas rate-of-flow is measured by a linear-characteristic instrument and (2) When the gas rate-of-flow is measured by a quadratic-characteristic primary detector. Orig. art. has: 3 figures and 9 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: ME, IE

no ref sov: 005

OTHER: 000

Card 1/1

FRANGULYAN, L.V.

How we prevent sterility in cown. Veterinariia 40 no.8:7-F
Ag '63.

1. Glavnyy veterinarnyy vrach Yemel'chinskogo rayona Zhitomirskoy oblasti.

FRANGUL'YAN, T.S.

F and M absorption bands in sclid solutions of the system KC1-KBr. Opt. i spektr. 19 no.2:299-300 Ag '65. (MTRA 18:8)

FRANGULYAN, V.

Rights and duties of the departments of technical control. Prom. Arm. 7 no.1:83-84 Ja '64. (MIRA 17:4)

l. Zamestitel' nachal'nika yuridicheskogo otdela Soveta narodnogo khozyaystva Armyanskoy SSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

. 8 (6)
AUTHORS:

Volosatov, O. P., Engineer, SOV/105-59-6-27/28 Grichevskiy, E. Ya., Engineer, Frangulyan, V. I., Engineer, Zul', N. M., Candidate of Technical Sciences, Yakobs, A. I., Candidate of Technical Sciences

TITLE:

S. A. Burguchev. Power Stations and Substations for Agriculture. A Manual for the Departments of Electrification in Agriculture. 671 Pages, Price 16 Rubles 5 Kopecks, Publishing House Sel'khozgiz, 1958 (S. A. Burguchev. Elektricheskiye stantsii i podstantsii sel'skokhozyaystvennogo naznacheniya. Uchebnoye posobiye dlya fakul'tetov elektrifikatsii sel'skogo khozyaystva. 671 str., ts. 16 rub. 5 kop. Sel'khozgiz, 1958)

PERIODICAL:

Elektrichestvo, 1959, Nr 6, pp 95 - 96 (USSR)

ABSTRACT:

This is a book review. The author has written this valuable book backed by his long engineering and teaching experience. It can be used by students and by engineers working in the electrification of agriculture. It may come in useful also for extension courses. It is very well arranged, and all basic chapters of the course have been given ample space. The subject is discussed from the viewpoint of modern engineering solutions.

: 於是翻翻翻譯

Card 1/2

S. A. Burguchev. Power Stations and Substations SOV/105-59-6-27/28 for Agriculture. A Manual for the Departments of Electrification in Agriculture 671 Pages, Price 16 Rubles 5 Kopecks, Publishing House Sel'khozgiz, 1958

A great deal of attention is also paid to the physical interpretation of problems. A sufficient number of sample problems are added. The book has 12 sections with 44 chapters. A short summary of each chapter is given, and rare shortcomings are indicated.

ASSOCIATION:

Giprosel'elektro (All-Union Institute for the Design and Planning of Rural Electrification), VIESKh (All-Union Scientific Research Institute of Rural Electrification)

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

CHAN DAN KHOA [Ch'ang Tang Houe], inzh.; FRANGULYAN, V.I.; VALYAVSKIY, Yu.P.

Power engineering in the Democratic Republic of Vietnam. Elek. sta. 32 no.12:56-59 D 61. (MIRA 15:1)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

04404.67 EWT(1)/EWT(m)/EWP(j)/T/EWP(k) ACC NR: AP6034418 IJP(a) WG/RTW/AT/RM SOURCE CODE: UR/0386/66/004/008/0277/0282 AUTHOR: Arutyunyan, F. R.; Ispiryan, K. A.; Oganesyan, A. G.; Frangyan, ORG: Joint Radiation Taboratory, AN ArmSER and YeGU(Ob"yedinennaya radiatsionnaya laboratoriya AN ArmSSR 1 YeGU); Physics institute, Yerevan (Fizicheskiy institut) TITIE: Resonance radiation of electrons of energy up to 600 Mev in a layered medium SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis ma v redaktsiyu. Prilonheniye, v. 4, no. 8, 1966, 277-282 TOPIC TAGS: resonance scattering, bremsstrahlung, electron radiation, radiation spectrum, layered medium ABSTRACT: The authors present experimental results on the characteristics of the radiation produced in different layered media by passage of high-energy electrons. The experiment was performed with the electron synchrotron of FIAN SSSR (maximum energy 680 Mey). Different layered media were used. Each consisted of n sheets of a paper. of definite thickness 11, placed in air at an equal distance of from one another. The electrons were registered with a scintillation telescope consisting of two plastic scintillators located on the two sides of the layered medium. The radiation spectrum up to 100 key was observed with a pulse-height analyzer. The measurements were made also for a solid medium, comprising the same layers compressed to a = 0. The quantity measured in this case was that part of the radiation in the layered medium, which was due to the electron bremsstrahlung in the layered medium itself and in the remaining

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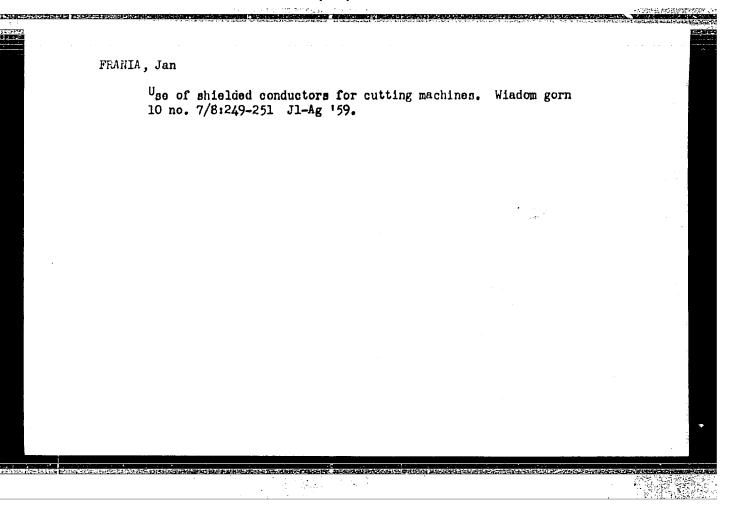
2

matter on the path of the electron, and also due to secondary effects. The experimental data show that for relatively low γ-quantum energies the radiation intensity in a layered medium depends to a considerable degree on the energy of the electron and exceeds by many times the radiation intensity in the solid medium. With increasing 7quantum energy the spectrum of the radiation in the layered medium gradually goes over into the spectrum of the solid medium, which does not depend on a, 11, or E when the amount of matter remains constant. The difference in the radiation intensities in the layered and in the solid medium was compared with the results of the theory of resonance radiation with allowance for the \gamma-quantum absorption on their entire path. The experimental data exceeded by many times the corresponding theoretical ones even without allowance for the y-quantum absorption. The experimental values exceeded the theoretical ones also for all the investigated layered media with different a,  $i_1$ , and n. The observed difference is attributed to the appreciable scattering of electrons in the layered medium itself. It is assumed that multiple scattering leads to the appearance of photons of relatively high energy, normally not appearing when scattering is not taken into account. It is concluded that the experimentally observed radiation of electrons in a layered medium, with an intensity that exceeds by many times in the x-ray region the intensity of the bremsstrahlung, and which depends strongly on the particle energy (like  $E^n$ , where  $n \geq 2$ ), can be used to determine the particle energy. The authors thank Professor V. A. Petukhov and the staff of the High-energy Electron laboratory of FIAN SSSR for the opportunity to perform the present experiment, and

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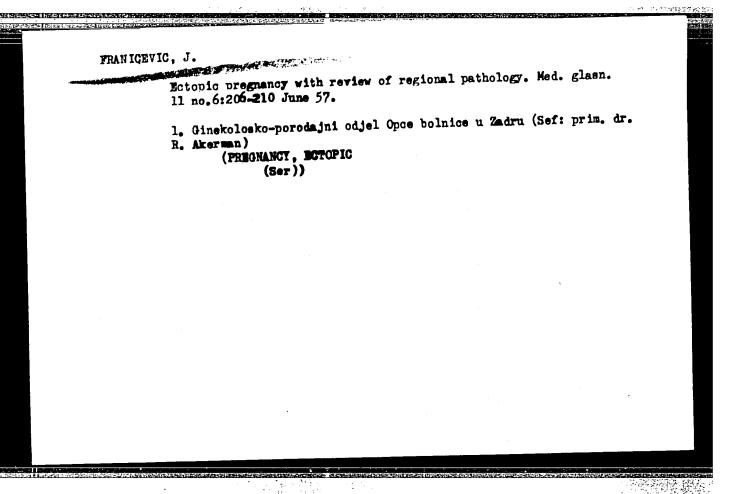
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FRATIC, Mladen

Modern and economical packaging of edible salt. Kem ind 9 no.9: N-36--N-43 S '60.

1. Biro za fudarstvo, Zagreb.



## FRANJIC, J.

Peroperative control of surgical sponges. Acta chir.iugosl. 7(8) no.3:271-273 \*60.

l. Kirurska klinika Medicinskog fakulteta u Zagrebu (Predstojnik prof. dr. Dimitrije Juzbasic)
(SURGERY OPERATIVE)

AUTHOR: Francevic, Josip (Doctor); Arneri, Ivo (Doctor)  ORG: Gynecology-Obstetrics Service, Medical Center, Zadar (Ginekolosko-opstetricka sluzba Medicinskog centra)  TITLE: Practical experience in the treatment of edema in late prognancy  SOURCE: Medicinski glasnik, Inc. 6-7, 1965, 160-161  TOPIC TAGS: chemotherapy, human ailment  ABSTRACT: Report on the treatment of 128 prognant patients with edema, all of whom were treated with benzhydroflumethiazide-KCL combination (Benzyl-Rodiuran of German manufacture): treatment for 7 to 70 days gave very good results with no side effects except in a single patient, a murse who complained of vertige following this and "other" diuretics. Comprehensive clinical data indicates safety and effectiveness.  SUB CODE: 06 / SUEM DATE: none / OTH REF: 004	
sluzba Fedicinskog centra)  TITLE: Practical experience in the treatment of edema in late pregnancy  SOURCE: Medicinski glasnik, no. 6-7, 1965, 160-161  TOPIC TAGS: chemotherapy, human ailment  ABSTRACT: Report on the treatment of 128 pregnant patients with edema, all of whom were treated with benzhydroflumethiazide-KCL combination (Benzyl-Rodiuran of German manufacture): treatment for 7 to 70 days gave very good results with no side effects except in a single patient, a nurse who complained of vertigo following this and "other" diuretics. Comprehensive clinical data indicates safety and effectiveness.	
SOURCE: Medicinski glasnik, no. 6-7, 1965, 160-161  TOPIC TAGS: chemotherapy, human ailment  ABSTRACT: Report on the treatment of 128 pregnant patients with edema, all of whom were treated with benzhydroflumethiazide-KCL combination (Benzyl-Rodiuran of German manufacture): treatment for 7 to 70 days gave very good results with no side effects except in a single patient, a murse who complained of vertigo following this and "other" diuretics. Comprehensive clinical data indicates safety and effectiveness.  [JPRS]	
TOPIC TAGS: chemotherapy, human ailment  ABSTRACT: Report on the treatment of 128 pregnant patients with edema, all of whom were treated with benzhydroflumethiazide-KCL combination (Benzyl-Rodiuran of German manufacture): treatment for 7 to 70 days gave very good results with no side effects except in a single patient, a nurse who complained of vertigo following this and "other" diuretics. Comprehensive elinical data indicates safety and effectiveness.  [JPRS]	
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SUB CODE: 06 / SUBM DATE: none / OTH REF: 004	
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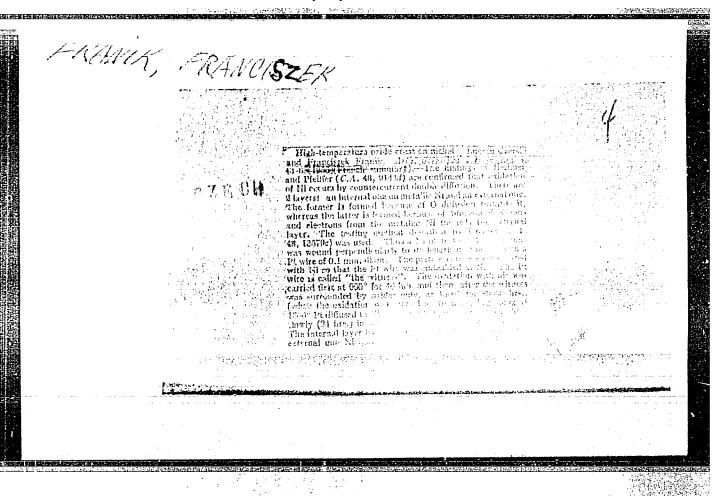
# BROY, Adolf; FRANIK, Antoni

Primary cyst of the ementum. Polski przegl. chir. 32 no.12:1217-1221 160.

1. Z II Oddsialu Chirurgicsnego Sspitala Miejskiego Nr 4 w Katewicach Ordynator: dr A. Broy.

(CMENTUM dis) (CYSTS surg)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"



KOZIC, M.; FRANJIC, J.

Our experience with liquorrhea. Acta chir. Iugosl. 12 no.1: 12-22 '65.

1. Kirurska klinika Medicinskog fakulteta u Zagrebu (Predstojnik prof. dr. D. Juzbasic).

FRANJKOVIC, Krunoslav, inz. (Translator)

Preparation of ripes for welding can be simplified by the application of corresponding tools. Zavarivanje 3 no.9/10: 170-172 N-D '60.

# FRANK, Albert

ASSESSMENT MEET PROFESSIONAL SECTION OF

Histological picture of thyroid gland in the poultry treated with methylthiouracil during experimental fattening. Biol glas 14 no.1/2:13-16 '61.

1. Odjel za znatomiju, histologiju i embriologiju Instituta za morfologiju i fiziologiju Veterinarskog fakulteta u Zagrebu.

GREBENSHCHIKOV, S.Ye.; RAYZER, M.D.; RUKHADZE, A.A.; FRANK, A.G.

Reflection and refraction of shock waves in magnetohydro-dynamics. Zhur.tekh.fiz. 31 no.5:529-538 My '61.

(MIRA 14:7)

1. Fizicheskiy institut imeni P.N.Lebedeva AN SSSR, Moskva.
(Shock waves) (Plasma (Ionized gases))
(Magnetchydrodynamics)

FRANCIC, K.

FRANJETIC, K. Construction of the first supersulfate cement; plant in Yugoslavia.

Vol. 4, No. 8, Aug. 1955 KEMIJAU INDUSTPIJI

SO:Monthly List of the East European Accessions, (EFAL), IC, Vol. 5, No.3 March, 1956

PHELPS, Herman C.; FRANJKOVIC, Krunoslav, inz. [translator]

New way of cutting soft steel by means of a plasma cutter.

Zavarivanje 4 no.1:3-10 Ja '61.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

FRANJKOVIC, Krunoslav, inz. [translator]

Electric machine cutter, a tool of modern construction. Zavarivanje 4 no.1:11-12 Ja '61.

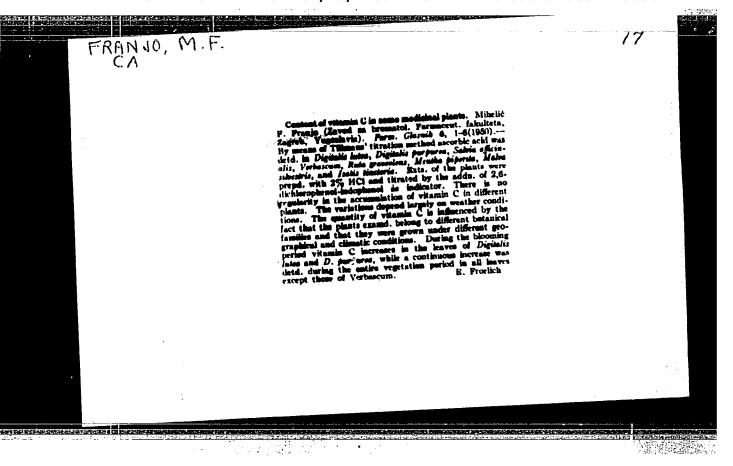
Propane and acetylent. Zavarivanje 4 no.1:18 Ja '61.

FUCES, E.; FRANJKOVIC, Krunoslav, inz. [translator] (Zagreb)

. Quality of welding. Zavarivanje 4 no.2:37-42 F '61.

1. "Poljomontaza", Zagreb (for Frnajkovic).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"



s/137/62/000/012/064/085 A006/A101

AUTHOR:

Franjo, Rešek

TITLE:

Nitriding alloyed steel and iron to raise wear resistance and

fatigue strength

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 130, abstract

121803 ("Zast. mater.", 1962, v. 10, no. 2, 49 - 51, Serbo-

Croatian)

The method of nitriding in a salt solution yields higher wear re-TEXT: sistance than nitriding in NH3. Nitriding of steel, alloyed with Cr, Al, W, and V increases H, up to 550 and of high-speed steel to 800 - 1,000°C. The nitriding temperature for non-alloyed and low-alloyed steels is about 580°C, and 540°C is the maximum temperature of nitriding high-speed steels. Nitriding duration in salts is 1 - 2 hours. After nitriding, wear resistance of Fe is risen by a factor of 5 and more. The wear resistance of friction parts in an automobile motor increases after nitriding by a factor of 2, as compared with non-nitrided parts. For instance, the wear of a nitrided automobile cylinder after running

Card 1/2

RODE, B.; FRANK, A.; VARICAK, T.

The distribution of acid and alkaline phosphatase activities in some organs of Cyprynus carpio L. Bul sc Youg 9 no.6:158-

1. Department of Anatomy, Histology, and Embryology of the Veterinary Faculty, Zagreb. Submitted August 3, 1964.

10-8000 26.2321 61/031/005/004/020 3104/3205 AUTHORS:

Grebenshchikov, S. Ye., Rayzer, M. D.. Rukhadze, A. A.,

TITLE: Reflection and refraction of shock waves in magnetohydro-

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 5, 1961, 529-538

TEXT: The authors studied the reflection and refraction of converging ring-type shock waves by a cylindrical "magnetic wall". As the front width of the shock waves was much smaller than the radial dimensions of the magnetic wall, the experimental results could be interpreted theoretically in terms of the interaction of a plane shock wave with the magnetic wall. The experimental arrangement is schematically shown in Fig. 1. The shock wave was produced electrodynamically in a 360-kc gas discharge. Two parallel-connected 0.2-mf capacitors were used as a power source. Two copper coils surfounding a vacuum chamber had an inductance of  $0.57~\mu h$ . A cylindrical magnetic wall was produced by means of a quasi-static magnetic field ( = 2.5 kc/sec) which had been generated by the discharge

Reflection and ...

5/057/61/031/005/004/020 B104/3205

of two parallel-connected 150- $\mu$ f capacitors through two coils (also connected in parallel) with a total inductance of 13.2  $\mu$ h. The distributions of the magnetic fields are graphically represented in Fig. 2. In a detailed theoretical discussion, the authors derive the following set of equations for the velocities of reflected and refracted shock waves:

$$\frac{\alpha + \beta (\alpha - x)(\alpha - z) = h + yz}{\frac{y\alpha + \eta}{\alpha - x} + \frac{\beta}{2} [(\gamma - 1)\alpha - (\gamma + 1)z + 2x] = 0,}{\eta + h \frac{2y - \gamma z}{y - z} = \frac{y}{2} [2y - (\gamma + 1)z].}$$
(16)

in the dimensionless parameters

$$x = \frac{u_1}{u_0}, \quad y = \frac{u_2}{u_0}, \quad z = \frac{v}{u_0},$$

$$\eta = \frac{1}{M_0^2}, \quad h = \frac{H_{20}^2}{8\pi\rho_0 u_0^2}, \quad \beta = \frac{\rho_1}{\rho_0} = \frac{\gamma + 1}{\gamma - 1 + 2\eta}, \quad \alpha = \frac{v_1}{u_0} = \frac{2(1 - \eta)}{\gamma + 1}.$$
(15)

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# "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4

Here stat 1 re velo the are	S/057/61/03:/03/020 B104/B205  e, the usual symbols q, p, and v with the index o refer to a gaseous efers to quantities behind the shock wave (Fig. 6). u and u are the velocity of the gas between these waves. Next, approximate solutions etic fields. The solutions	では、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
and	$ \begin{array}{c} u_{1} = v_{1} - c_{1}, \\ u_{2} \simeq u_{0}, \\ v \simeq v_{1}. \end{array} $ $ \begin{array}{c} u_{1} = -u_{0} \frac{2(\gamma - 1)}{(\gamma + 1)}, \\ u_{2} = c_{0}^{2} + \frac{H_{2}^{2}}{4\pi\rho_{0}}, \end{array} $ $(17)$	
Card	v ≃ 0	

Reflection and.

\$/057/61/031/005/004/020 B104/B205

are obtained. Summing up: On the strength of experimental results, it was possible to neglect the ionization energy as compared to the kinetic energy of the gas since the former amounts to less than one-tenth of the kinetic energy at velocities u > 2.106 cm/sec. It is shown that the reflection of a shock wave from the magnetic wall is determined essentially by the parameter  $h = H^2/8\pi q_0 u_0^2$  which expresses the ratio of the density of magnetic energy to the density of kinetic energy in the shock wave. The experimental conditions showed that the velocity  $\mathbf{u}_{o}$  of the incoming wave and the gas pressure  $\textbf{p}_0$  are interrelated by  $\textbf{u}_0 \sim 1/\sqrt{\textbf{p}_0}$  . This velocity decreases as the molecular weight of the gas increases. In the present case, the quantity  $\rho_0 u_0^2$  again depends neither on the type of gas nor on pressure. Thus, h is determined only by the strength of the magnetic field at the point of reflection, even in discharges in different gases and at different pressures. Consequently, the reflection of shock waves must be equal with equal fields. The calculated values are determined chiefly by  $\gamma = c_0/c_v$ . Thus, different maximum velocities  $u_1$  of reflected

Card 4/8

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Reflection and... 8/05/05/005/004/0

waves are obtained for different values of  $\gamma$  and also different values of h at which maximum velocities are attained. For  $\gamma = 5/3$ , e.g., one obtains ulmax = -u\_o/2, h\_max = 4.5; for  $\gamma = 7/5$ , ulmax = -u\_o/3 and h\_max = 6.7. For  $\gamma = 5/3$  the experimental results agree well with the theoretical ones. With a field of about  $4\cdot10^3$  oe, the velocity of the reflected wave is half as high as that of the incoming wave. This corresponds to h~4, which means that the gas behind the shock wave dissociates almost entirely. Good agreement with the experimental results is obtained even with weak magnetic fields (less than  $2\cdot10^3$  oe, i.e., h<1). An increase in the velocity of the shock waves passing through the magnetic field is obtained with all magnetic field strengths, which is in accordance with theory. Thus, the velocity of a refracted wave in a field of about  $4\cdot10^3$  oe is three times as high as that of the incoming wave and becomes equal to the magnetosonic velocity. R. A. Latypov is thanked for help in experiments, and A. T. Matachun for calculations done with the "Ural" computer. There are 8 figures and 5 Soviet-bloc references.

Card 5/8

Reflection and ...

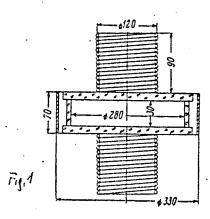
8/057/61/031/005/004/020 8104/8205

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR Moskva (Institute of Physics imeni P. N. Lebedev, Academy

of Sciences USSR, Moscom)

SUBMITTED:

July 25, 1960



Card 6/8

S/0057/63/033/008/1011/1020

AUTHOR: Rayzer, M. D.; Frank, A. G.; Kitayeva, V. F.

7

TITIE: Localization of high-frequency induction discharge

2

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 33, no. 8, 1963, 1011-1020

TOPIC TAGS: induction discharge, high-frequency discharge, high-frequency induction discharge, plasma, plasma discharge, hydrodynamic instability

ABSTRACT: A detailed investigation has been made of conditions for the localization of high-frequency induction discharge in H<sub>2</sub>, He, Ar, and air at pressures of 1.0 to 30 mm Hg, discharge frequencies of 5 to 16 Me, and discharge currents of 30 to 120 amp. It was found that during an hf induction discharge in a bell-shaped magnetic field at a gas pressure above 1.0 mm Hg, a plasma coil is generated which is separated from the walls of the vacuum chamber and which lasts during the whole hf pulse. The conductivity, temperature, and ionization rate of the plasma were measured, and the shape of the plasma coil was investigated by means of high-speed photography. A qualitative explanation of discharge localization is given on the basis of a hydrodynamic model of weakly ionized

Card 1/2

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CIA-RDP86-00513R000413530010-4

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ACCESSION NR: AP3005515

plasma. "The authors thank P. A. Laty\*pov and L. I. Shumskiy for help in performing the experiments and M. S. Rabinovich and A. A. Rukhadze for valuable suggestions." Orig. art. has: 4 figures and 15 formulas.

ASSOCIATION: Firicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 12Jun62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 005

OTHER: 004

Card 2/2

FRANK, A.G., KUZNIK, V.I.

Experience with resuscitation and reanimation of patients from terminal states under district hospital conditions. Khirurgiia 39 no.9223-25 SF63 (MIRA E723)

1. Iz 2-y gorodskey bei'nitay (glavnyy trach K.I. Bashko) Krasnotur'inaka Swerdlovskoy oblasid.

RAYZER, M.D.; STRELKOV, P.S.; FRANK, A.G.

Localization of a linear high-frequency current in a gas by a quadrupole magnetic field. Zhur. tekh. fiz. 34 no.6: 1040-1049 Je '64. (MIRA 17:9)

1. Fizicheskiy institut imeni Lebedeva AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"

ACCESSION NR: AP4040308

8/0057/64/034/006/1040/1049

AUTHOR: Rayser, M.D.; Strelkov, P.S.; Frank, A.G.

TITLE: Localization by a quadrupole magnetic field of a linear high frequency current in a gas

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.6, 1964, 1040-1049

TOPIC TAGS: plasma, gas discharge, discharge plasma, electric discharge, discharge tube, plasma-magnetic field interaction

ABSTRACT: The authors investigate the effect of a quadrupole magnetic field on the configuration of a 3.2 megacycle/sec linear discharge in hydrogen and air at pressures from 0.006 to 5 mm Hg and currents from 0.3 to 3.0 kA. The discharge was excited by ten 17 turn toroidal coils surrounding the 7.3 cm diameter 72 cm long discharge tube and forming part of the anode circuit of a self-excited oscillator operated with 1 millisec pulses. Plane metal electrodes, 4 or 6 cm in diameter, were located at each end of the discharge tube. These electrodes were connected externally through capacitors and a system of four metal rods parallel to and equidistant from the axis of the tube. Discharge through these rods of a 0.001 farad capacitor charge.

Cord 1/3

### ACCESSION NR: AP4040308

ged to 6 to 8 kV produced the quadrupole magnetic field, which attained values as great as 3800 Oe at the wall of the discharge tube. Adjacent rods were separated by 15.5 cm, and the oscillating frequency of this system was I kilocycle/sec. The asimuthal magnetic field was measured with a magnetic probe that could be positioned anywhere along a radius of the discharge tube. From these measurements the radial distribution of the current was obtained. The total discharge current was measured with a current transformer (Rogovskiy belt). The plasma was probed with 3.2 and 0.82 cm microwaves. Both the transmitted and the reflected waves were observed, and from the phase shift of the reflected waves, the distance from the wall of the tube was determined at which the critical charged particle densities were attained. The loading of the exciting oscillator by the plasma was measured, and from this the conductivity of the plasma was determined. High speed photographs of the discharge were made. Many of the data obtained are presented graphically, and they are discussed in considerable detail. A skin effect was observed at pressures below 0.1 am Hg; the thickness of the skin layer decreased with increasing current and decreasing pressure. When the quadrupole magnetic field was sufficiently great, the current ... was confined to an axial region of diameter about two-thirds that of the tube. Such: localization of the discharge current did not alter the distribution of charged particles in the plasme; in particular, the positions of the critical charges particle

Card 2/3

ACCESSION NR. APTUTUOUO

densities for microwave reflection did not vary with the quadrupole magnetic field. At pressures above 1 mm Hg a localization of the current was observed even in the absence of the quadrupole magnetic field. This was evinced by a drop in the reflected microwave intensity, indicating loss of radial symmetry of the charged particle density, and by large irregular fluctuations of the magnetic probe readings. The fluctuations of the readings of two magnetic probes separated by 14 cm in the axial direction were uncorrelated under these conditions. Application of the quadrupole magnetic field tended to stabilize the high pressure discharge. "The authors are grateful to B.M.Gutner and N.V. Uspenskaya for assistance in adjusting the high frequency oscillator, to Yu.S.Antonov and R.A.Laty\*pov for assistance with the experimental work, and to M.S.Ravinovich, N.A.Boby rev, I.S.Danilkin, A.A.Rukhadze, and I.S. Shpigel for discussing the results." Orig.art.has: 10 figures.

ASSOCIATION: Finicheskiy institut im.P.N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 14Jun63

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: ME, EM

MR REF SOV: 006

OTHER: 000

FRANK, Albert

Time variability in the ossification of tuberositas tibiae in poultry (Gallus domesticus) in normal and in fattening growing. Biol glas 15 no. 4: 225-227 '62.

1. Odjel za anatomiju, histologiju i embriologiju Instituta za morfologiju i fiziologiju Veterinarskog fakulteta u Zagrebu.

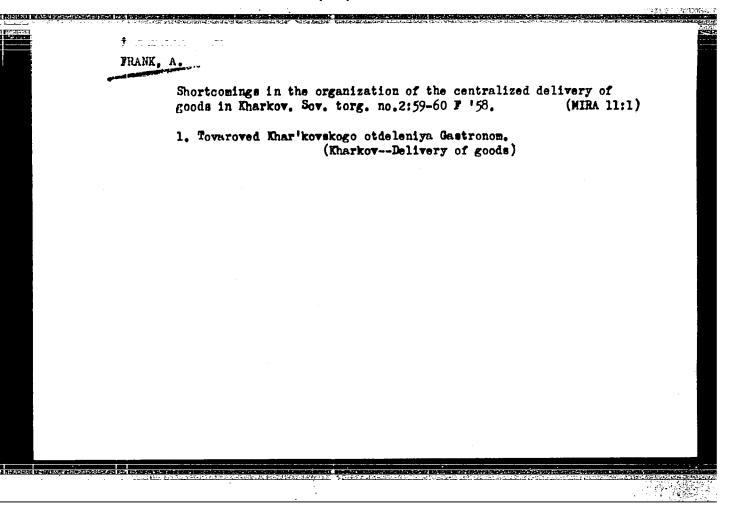
VKANE, A.

Made A.; Vallen, T.

Structure of the liver in aquatic manuals in relation to the general structure of a liver. p. 101 (GLASNIA, Series II/8, v. 5/6, 1950/52, Zagreb, Yugoslavia)

So: Monthly list of East European Accessions, (EEL), LC, Vol. 4, no. 1 Jan. 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"



MESHKALIO, V.M., inshener; Frank, A.A., inzhener.

Haulage of logs by the simplified technique of working a low store.

(MLRA 10:5) (Thakass Autonomous Province--Lumber--Transportation)

FRANK, A. I. (Moskva)

New method of gravimetric determination of the dust content of the air of industrial sites. Gig. truda i prof. zab. no.1:55-59 '62. (MIRA 15:2)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR.

(DUST) (AIR FILTERS)

L 00757-66 EAT(1)/EAT(E)/T/EAP(t)/EAP(b) IJP(c) JD/JG/GG

ACCESSION NR: AP5014197

UR/0386/65/001/002/0021/0027

AUTHOR: Lushchikov, V. I.; Taran, Yu. V.; Frank, A. I.

TITLE: Dynamic polarization of deutrons in a lanthanum-magnesium nitrate crystal

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 1, no. 2, 1965, 21-27

TOPIC TAGS: deutron polarization, single crystal, deuterium, heavy water, lanthanum, magnesium compound, nitrate

ABSTRACT: An attempt was made to polarize deuterium nuclei by the dynamic method. The specimen was a single crystal of binary lanthanum-magnesium nitrate La2Mg3(NO3)12·24(H2O + D2O) with a 1% Nd<sup>142</sup> impurity. Part of the ordinary water of crystallization in this crystal has been replaced by heavy water. Mass spectroscopic analysis showed a deuterium content in the crystal of 42%. It was found that polarization in excess of 10% is possible in a magnetic field of 20,000 cersteds at a temperature of 1°K, which is much greater than the 1.2% polarization attainable in solid deuterium. Orig. art. has: 2 figures, 1 formula.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of

Nuclear Research) 14,55

SUBMITTED: O3Mar65 ENCL: 00 NO REF SOV: 00

SUB CODE: NP OTHER: 010

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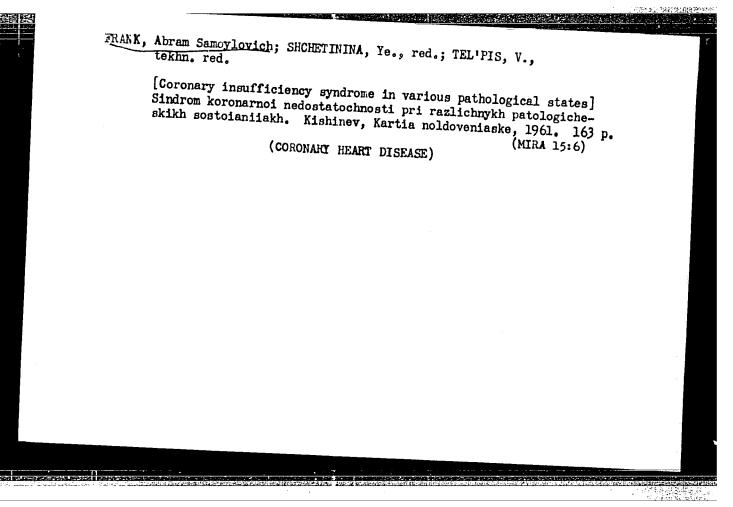
Peculiarities of chronic coronary insufficiency in some diseases.

Zdravookhranenie 3 no. 5:24-29 S-0 '60. (MIRA 13:10)

1. Iz bol'nitsy Lechsanupravleniya (nachal'nik - kand.med.nauk
M.G. Zagarskikh) Ministerstva zdravookhraneniya Moldavskoy

SSR. (CORONARY VESSELS—DISEASES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4"



# FRANK, A.S.

Pathogenesis of coronary insufficiency in diabetes mellitus. Zdravookhranenie 5 no.5:19-22 S-0'62. (MIRA 16:7)

1. Iz bol'nitsy Lechebno-sanitarnogo upravleniya Moldavskoy SSR (nachal'nik - kand.med.nauk M.G.Zagarskikh).

(CORONARY VESSELS—DISEASES) (DIABETES)

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VARIGAK, Teodor; RODE, Bojan; FRANK, Albert

Histochemical studies of mastocytes in the uterus of some ruminants. Biol glas 15 no.1:39-41 '62.

1. Glavni urednik, \*Bioloski glasnik. Periodicum biologorum.

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**使作为数字** 

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413530010-4

FRANK, G. M.

"About Two Types of Muscle Contraction."

report presented at the Intl. Biophysics Congress, Stockholm, Sweden, 31 July -

Institute of Biophysics, USSR Academy of Sciences, Moscow, USSR.

ACCESSION NR: AP4040720

5/0043/64/000/002/0046/0056

AUTHOR: Frank, B.

TITLE: Theory of curves in a Minkowsky space

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 2, 1964, 46-56

TOPIC TAGS: Minkowsky space, curve theory, four dimensional space, pseudo-euclidean space, vector analysis, moving n-hedron, Frenet formula

ABSTRACT: A Minkowsky space is a four-dimensional pseudo-euclidean space  $R_{L}$  of index 1. Regular curves in this space, depending on whether their tangent, normal and binormal vectors are less than, greater than or equal to zero, can be separated into seven classes. The traditional method of the moving n-hedron can be applied to curves of classes 1-4 without difficulty; it is not applicable to curves of classes 5-7 because of the peculiarity of isotropic vectors that they cannot be normalized and cannot form a part of an orthonormalized basis of space  $R_{L}$ . In the present paper, this method is used for curves of all classes and, moreover, is successful in relating to curves of classes 2-7 a moving tetrahedron specialized in such a form that we obtain an analog of the Frenet formula

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having the form of the well-known Frenet formula for curves of class 1. Here, only the curves with euclidean and isotropic tangents have to be studied separately. The work is based on the fact that for curves with euclidean or isotropic tangents, an imaginary unit vector of the moving tetrahedron is arbitrarily fixed. During the course of the paper, nine theorems are proven. Orig. art. has: I table and 10 numbered formulas.

ASSOCIATION: none

SUBMITTED: 08Jan63

ENCL: 00

SUB CODE: MA

NO REF SOV: 002

OTHER: 004

2 /2

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SAMBEROVA, Vera, promoveny fyzik, Cas.; RULERA, Dudvik; PRAMP, by uslav

Comparison of the characteristic parameters of the selenium rectifying cells made today. El tech obsor 53 no. 6:316-321 Je 164.

1. Faculty of Electrical Engineering, Grech Higher School of Technology, Prague (for Sanderova and Frank).
2. Elektropristroj National Enterprise, Research on Rastifiers, Bechovice (for Kucera).

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248. Defermination of load as lead hydrogen phosphate.

W. Hishicki, B. Frank, Mo. T. Trau (Ann. Univ. M. Curte.

Sholowska, 1850. 6, 1741, 53-64). An owe graturelitic method for the quant, determination of lead is described. A solution is produced by the contains of 1-05 g. of ph. 50 mi. of 110, (1: 1).

1000. The solution is healted the Univ. and 4 mi. of H<sub>3</sub>10, (sp. gr. 125). The solution is healted to Univ. and a conc. solution of NiI, is added dropowise, to pl. 4 Univ. and a conc. solution of NiI, is added dropowise. The pl. is filtered or destributions of Philipol, is formed. The ppl. is filtered or destributions of Philipol, is formed. The ppl. is filtered or destributions of the price of pure lead is 0.13%, The use of ethanol for washing the ppt. gives slightly better results.

S. K. Lachowicz.